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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/451,641	11/30/1999	Danchen Gao	PC10664	9327	
26648 7590 02/13/2007 PHARMACIA CORPORATION			EXAMINER		
GLOBAL PATE	ENT DEPARTMENT		TRAN, S	TRAN, SUSAN T	
POST OFFICE BOX 1027 ST. LOUIS, MO 63006			ART UNIT	PAPER NUMBER	
51.20010,1.10			1615		
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)
Office Action Summary		09/451,641	GAO ET AL.
		Examiner	Art Unit
		Susan T. Tran	1615
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES assions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin 17ill apply and will expire SIX (6) MONTHS from 17 cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on <u>21 Deservice</u> This action is FINAL . 2b) This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro-	
Dispositi	on of Claims		
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□	Claim(s) 1-10,12-50,72-75,84 and 86-90 is/are 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-10,12-50,72-75,84 and 86-90 is/are Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acces Applicant may not request that any objection to the or	rejected. rejection requirement. r. epted or b) □ objected to by the l	
11)	Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Example 1.		
Priority u	ınder 35 U.S.C. § 119		
12) <u></u> a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive i (PCT Rule 17.2(a)).	on No ed in this National Stage
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/21/06 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4-10, 12-50, 72-75, 84 and 86-90 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPS Annual Meeting Contributed Papers Abstracts (AAPS), in view of Black EP 0 863 134, or Plachetka US 6,586,458, or Block et al. US 6,440,967.

AAPS teaches a celecoxib (Cox-2 inhibitor) formulation that exhibits an unchanged C_{max} value of 1527 and 1077 ng/mL, and a T_{max} of 1.9 hours (see page D32).

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AAPS does not teach the use of excipients in the formulation. However, the use of excipients in oral formulations is well known in pharmaceutical art.

Black teaches a compound useful as a Cox-2 inhibitor for pain relief, fever and inflammation of a variety symptoms disclosed on page 3, lines 29-36. The compound can be administered orally in the form of tablets, troches, lozenges, or capsules (page 4, lines 1-12). The tablets comprise active ingredient in admixture with excipients, *e.g.*, diluents, disintegrants, binding agents, wetting agents, and surfactant (page 4, lines 15-38). The active agent is present in an amount of 10 to 250 mg. The carrier material may vary from about 5 to about 95% (page 5, lines 39-58). The dosage can be administered once or twice a day, and will provide effective T_{1/2} over a 24 hours period (page 5, lines 22-27). Example 2 discloses the amount of excipients use in a tablet.

Plachetka teaches a pharmaceutical composition comprising COX-2 inhibitor includes celecoxib (column 4, lines 8-9). Celecoxib can be formulated into tablet for once or twice per day in an amount of about 100 mg to 200 mg (column 6, lines 65 through column 7, lines 1-7). Plachetka also teaches the composition can be formulated into capsule, and other single dosage form with the use of excipients, such as filler, disintegrants, and wetting agents (column 10, lines 54-67).

Block teaches a pharmaceutical formulation comprising COX-2 inhibitor includes celecoxib (column 15, lines 11-12). The composition is formulated into solid dosage form such as powder, capsule, tablet or pill with the use of pharmaceutical carrier (column 18, lines 17-33; and examples 3-5). Block also teaches the amount of COX-2 is from 1-600 mg (column 22, lines 60-67).

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Thus, it would have been obvious for one of ordinary skill in the art to modify the formulation of AAPS using the excipient/carrier in view of the teachings of Black, Plachetka, or Block to obtain the claimed invention, because the references teach oral dosage form of Cox-2 inhibitor including celecoxib that is useful in pharmaceutical art, and because AAPS teaches orally administering celecoxib in fine suspension and capsule forms having the claimed C_{max} and T_{max} values.

It is noted that AAPS does not expressly teach the particle size distribution, however, the burden is shifted to applicant to show that the formulation of AAPS does not have the claimed particle size distribution, because AAPS teaches the oral formulation of celecoxib having the claimed C_{max} and T_{max} values.

Claims 1, 2, 4-10, 12-50, 72-75, 84 and 86-90 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPS Annual Meeting Contributed Papers Abstracts (AAPS), in view of Black EP 0 863 134 and Zhang et al. US 5,543,099.

AAPS and Black are relied upon for the reason stated above. It would have been obvious to one of ordinary skill in the art that the celecoxib formulation taught by AAPS would have the claimed particle distribution since AAPS teaches the same active agent in formulation that exhibits the same C_{max} and T_{max} values. However, to be more specific, Zhang is cited for the teaching that it is well known in the art to micronize active ingredient to obtain excellent content uniformity, consistent release profile, and good bioavailability (column 3, lines 8-17). Thus, it would have been obvious to one of ordinary skill in the art to modify the formulation of AAPS and Black to micronize the

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active agent, namely celecoxib in view of the teaching of Zhang to obtain the claimed invention, because Zhang teaches active granule having excellent content uniformity, because Zhang teaches granule having the claimed particle size, e.g., from 0.1 to 50 micrometers (column 3, lines 53-55), and because Zhang teaches micronizing active agent having similar property as the claimed celecoxib, such as highly water-insoluble (column 3, lines 25-29).

Response to Arguments

Applicant's arguments filed 12/21/06 have been fully considered but they are not persuasive.

Applicant argues that because the Patent Office has not shown that claims 1, 2, 4-10, 12-50, 72-75, 84 and 86-90 are prima facie obvious, shifting the burden to Applicants to show that the formulation of AAPS does not have the claimed particle size distribution, as well as the detrimental effect and/or unexpected results over the particle size distribution, is improper. See MPEP 2142. Accordingly, Applicants respectfully request that the rejection of claims 1,2, 4-10, 12-50, 72-75, 84 and 86-90 be withdrawn.

However, it is noted that AAPS teaches a composition that exhibits the properties desired by the applicant. See for example applicant's specification at pages 5-6 discloses: compositions results from surprisingly effective absorption of celecoxib in the GI tract; T_{max} of not greater than about 3 hours; and a terminal half live ($T_{1/2}$) that is not less than about 10 hours. Applicant's attention is called to the teaching of AAPS at page 3469 for the same properties including composition of COX-2 that is rapidly

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absorbed with a T_{max} of 1.9 hours, and eliminated with a $t_{1/2}$ of about 15 hours. Accordingly, it would have been obvious to one of ordinary skill in the art to, by routine experimentation determine a suitable particle size of COX-2 to obtain the claimed invention. When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not. *In re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

Claims Allowable

Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

This is a continuation examination of applicant's earlier application. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan T. Tran whose telephone number is (571) 272-0606. The examiner can normally be reached on M-F 6:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on (571) 272-8373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PRIMARY EXAMINER

S. Tran
Primary Examiner
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